

M.A.L.D.GOV'T. DEGREE COLLEGE  
GADWAL.  
2019-20



Affiliated to Palamuru University,  
Mahabubnagar.

Department of Statistics  
Certificate Course in  
“OPERATIONS RESEARCH AND LINEAR  
PROGRAMMING PROBLEM “


Name of the Course convener- V.Manoj kumar  
In charge  
Dept of Statistics

Name of the Resource Persons - Ramadevi.  
Lecturer in statistics

## Department of Statistics

### NOTICE

All the T B SC students kindly informed that Statistics Department of this college conducting 15 days certificate course OPERATION RESEARCH AND LINEAR PROGRAMMING in month Dec 2019 onwards students who are interested may registered their names with the course certificate co-ordinator.

  
PRINCIPAL  
M.A.L.D. Govt. Degree & PG. College  
GADWAL - 509 125



## SYLLABUS

**Objective :** The Objective of the paper is to introduce the basic concepts of operational Research and linear programming to the students.

### Topics:-

**Basic of operational Research:** origins Development of operation Research, Definition and Meaning of operational Research, Different Phases of an operational Research study, scope and limitation of operational Research, Mathematical Modeling of Real life problems

**Linear programming:-** Introduction to linear algebra solution of a system of a Linear Equation, Linear independence and dependence of vectors, concepts of Basis, Basic feasible Solution.

(BFS) inl. by North-west corner Rule, (BFS) Matrix minimum method and VAM optimal solution through MODI tableau and stepping stone method for balanced and unbalanced transportation problem. Degeneracy in Tp and resolving it. concept of transshipment problem

Formation and description of Assignment problems and it variations. Assignment problem as a special case of Tp and LPP. optimal solution using Hungarian method. Problem of sequencing. optimal sequencing of N jobs on two and three Machines without passing

  
PRINCIPAL



		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Total no. of Attendance	Signature of Students
1.	B. chenna Reddy	19033024467001	X	a	X	X	X	X	X	a	a	X	X	a	X	X	11	chenna Reddy
2.	B. Hussien	19033024467002	X	X	X	X	X	X	X	a	X	X	X	a	X	X	13	B. Hussien
3.	B. Raju kumar	19033024467003	X	X	a	X	X	X	a	a	X	X	a	X	a	a	09	B. Raju
4.	C. Manasa	19033024467004	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15	C. Manasa
5.	G. Manisha	19033024467005	X	X	X	X	X	X	a	X	X	X	a	X	X	X	12	G. Manisha
6.	G. Manohar	19033024467006	X	X	X	a	a	X	a	a	X	X	a	X	X	X	10	G. Manohar
7.	J. prasanna kumari	19033024467007	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15	J. prasanna.
8.	k. Rajashekhar	19033024467008	X	a	a	X	X	a	X	X	X	X	X	X	X	X	12	k. Rajashekhar
9.	k. Ranga Sوامy	19033024467009	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15	k. Rangaswami
10.	R. Akhila	19033024467010	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15	R. Akhila
11.	T. Ashwini	19033024467011	X	X	a	X	X	X	a	X	X	X	X	X	X	X	13	T. Ashwini
12.	U. Lalitha	19033024467012	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15	U. Lalitha

U. Lalitha  
LECTURER  
Govt. Degree College  
GADWAL - 509125

U. Lalitha  
PRINCIPAL  
M.A.D. Govt. Degree & PG. College  
GADWAL - 509125









## M.A.L.D. GOVERNMENT DEGREE COLLEGE - GADWAL

Accredited with "B" Grade by NAAC  
Affiliated to Palamuru University  
Jogulamba Gadwal District, Telangana State.



### Course Certificate

This is certify that Mr. / Mrs. B. HUSSEN  
Roll No. 19033024467002 Studying B.Sc I year has completed  
the Certificate Course in OPERATIONS RESEARCH AND LINEAR PROGRAMMING PROBLEM  
conducted by the Department of STATISTICS M.A.L.D. Government Degree College, Gadwal  
from Dec 2019 to \_\_\_\_\_

H. Pasooli  
Course Co-ordinator

llib.v  
Convenor

[Signature]  
Principal  
M.A.L.D. Govt. Degree & PG. College  
GADWAL - 509 125

## M.A.L.D. GOVERNMENT DEGREE COLLEGE - GADWAL

Accredited with "B" Grade by NAAC  
Affiliated to Palamuru University  
Jogulamba Gadwal District, Telangana State.



### Course Certificate

This is certify that Mr. / Mrs. J. PRASANA KUMARI  
Roll No. 19033024467007 Studying B.Sc I<sup>st</sup> year has completed  
the Certificate Course in OPERATIONS RESEARCH AND LINEAR PROGRAMMING PROBLE  
conducted by the Department of STATISTICS M.A.L.D. Government Degree College, Gadwal  
from Dec 2019 to \_\_\_\_\_

H. Pasooli  
Course Co-ordinator

llib.v  
Convenor

[Signature]  
Principal  
M.A.L.D. Govt. Degree & PG. Col  
GADWAL - 509 125